9400188

THE UNITED STAYLES OF ANTERIOA

roantownom wese gresenes snan come: Northrup King Co.

Cothereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, importing it, or exporting it, or using it in producing a hybrid or different ty therefrom, to the extent provided by the Plant Variety Protection Act.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Coker 9474'

In Lestimony Winexcot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C.

this 29th day of July in the year of our Lord one thousand nine hundred and ninety-four.

Attest:

Tenneth H. Evo

Plant Variety Protection Office Agricultural Marketing Service Miles ESS Secretary of Agriculture

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Office, DIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #0581-0055), Washington, 20250.

FORM APPROVED: OMB 0581-0055, Expires 1/31/91

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE Information is held confidential until certificate is issued (7 U.S.C. 2426). (Instructions on reverse) TEMPORARY DESIGNATION OR EXPERIMENTAL NO. 3. VARIETY NAME 1. NAME OF APPLICANT(S) (as it is to appear on the Certificate) Northrup King Company L880437 Coker 9474 ADDRESS (street and no. or R.F.D. no., city, state, and ZIP) PHONE (include area code) FOR OFFICIAL USE ONLY P.O. Box 959 PVPO NUMBER Minneapolis, MN 55440 612/593-7333 GENUS AND SPECIES NAME NG FAMILY NAME (Botanical) Triticum aestivum Gramineae Filing and Examination Fee: DATE OF DETERMINATION CROP KIND NAME (Common Name) Soft Red Winter Wheat May 1988 10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Corporation 11. IF INCORPORATED, GIVE STATE OF INCORPORATION 12. DATE OF INCORPORATION Delaware 1976 13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Northrup King Company P.O. Box 949 Washington, IA 52353-0949 Attn: John Thorne PHONE (Include area code): 319/653-6645 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse) X Exhibit A, Origin and Breeding History of the Variety Exhibit B, Novelty Statement. X X Exhibit C, Objective Description of Variety Exhibit D, Additional Description of Variety Exhibit E./ Statement of the Basis of Applicant's Ownership. Seed Sample (2,500 viable untreated seeds) Date Seed Sample mailed to Plant Variety Protection Office Filing and Examination Fee (\$2,150) made payable to "Treasurer of the United States." DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See section 83(a) of the Plant Variety YES (If "YES." answer items 16 and 17 below) NO (If "NO," skip to item 18 below) 17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? X YES CERTIFIED FOUNDATION X REGISTERED 18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? YES (If "YES," through Plant Variety Protection Act Patent Act. Give date. Ϋ́ NO 19 HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? X YES (If "YES," give names of countries and dates) U.S.A. Fall of 1993 □ NO 20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties. DATE SIGNATURE OF APPLICANT YOwner(s) CAPACITY OR TITLE Res. Dir., Self-pollinated Crops May 12, 1994 SIGNATURE OF APPLICANT IOW

Exhibit A Origin and Breeding History of Coker 9474

SEASON	<u>GENERATION</u>	ACTIVITY
1983-84		Cross: IN71761A4-31-5-48 x Wheeler, where IN71761A4-31-5-48 was an unreleased breeding line from Purdue University with a complete pedigree involving Benhur, Arthur, Knox 62, PI 94583, and Ribiera.
1984-85	F_1	Grown in field, plants bulked at harvest
1985-86	F_2	Field grown at Bay, AR; selected 100 individual heads from plants with resistance to leaf rust.
1986-87	F ₃	Head rows grown at Bay, AR; Head Row #492 selected and bulked based on resistance to leaf rust.
1987-88	F ₄	Grown as 10' observation plots, plot #1864 selected and harvested based on uniformity and resistance to leaf rust.
1988-89	F ₅	Preliminary yield trials, advanced based on yield, uniformity and disease resistance. Assigned breeding number L880437.
1989-90	F ₆	Yield testing in advanced company trials. Small increase block at Bay, AR.
1990-91	F ₇	Elite company trials. Small increase with nested head rows at Bay, AR.
1991-92	$\mathbf{F_8}$	Continued company testing in elite yield trials, and USDA Uniform Eastern Soft Red Wheat Nursery; Breeder seed produced by Production Department, with continued purity increases by research of 10' nested plots.
1992-93	F ₉	Further testing in company trials and the USDA Uniform Eastern Soft Red Wheat Nursery. Foundation seed produced and approved by the Arkansas State Plant Board. Released as COKER 9474.
1993-94	$\mathbf{F_{10}}$	Registered seed produced
1994-95	F ₁₁	Certified seed produced and sold to farmers.

COKER 9474 is a uniform, stable variety but may contain the rare taller and earlier maturing offtype plant at a frequency not exceeding 5/10,000. During five years of testing and four years of seed increase we have observed no other offtypes.

1 AMA 11 July 1994

2

COKER 9474

Exhibit B. Novelty Statement

COKER 9474 most closely resembles COKER 9803. The two varieties can be distinguished based on coleoptile pigmentation, winter growth habit, resistance to Hessian Fly biotypes and 1,000 kernel weight (see Table 1). COKER 9474 has purple coleoptiles and COKER 9803 has white. COKER 9474 has a prostrate winter growth habit and COKER 9803 has an intermediate growth habit. COKER 9474 is resistant to Hessian Fly biotypes GP, B, D, C, and E; COKER 9803 is moderately resistant only to biotype E. COKER 9474 has a higher 1,000 kernel weight than COKER 9803.

Table 1. Distinguishing Characteristics

	Coleoptile	Growth <u>Habit</u>	Hessian <u>Fly</u>	1,000* <u>Kernel Wt</u>
COKER 9474 COKER 9803	Purple White	Prostrate Intermediate	RS-GP,B,D,C,&E MR - E	32.60 gms 30.30 gms
C.V. LSD (.05)				3.19 1.98

^{*}Averaged over 2 years, 1 location.

EXHIBIT C

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE COMMODITIES SCIENTIFIC SUPPORT DIVISION BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY

11/21 KBC 1 /e/ici	RITICUM SPPJ
NAME OF APPLICANTIS	FOR OFFICIAL USE ONLY
Northrup King Company ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	9400188
	στοιεγό ματές δα γεμολάκου
P.O. Box 959 Attn: John Ti Minneapolis, MN 55440	norne Designation
FITTINEAPOLIS, FIN 33440	Coker 9474
Place the appropriate number that describes the varietal charact	er of this variety in the boxes below.
Place a zero in first box (e-s- 0 8 9 or 0 9) when number	
L. KINDI	
1 1 = COMMON 2 = DURUM 3 = EMMER . 4 = SPELT	5 = POLISH 6 = POULARO 7 = CLUB
2. TYPE:	i = SOFT 3 = OTHER (Specify)
2 1 = SPRING 2 = WINTER 3 = OTHER (Specify)	1 2 = HARD 2 = HARD
2 1 = WHITE 2 = RED 3 * OTHER (Specify)	
3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:	
1 8 8 FIRST FLOWERING	1 9 3 LAST FLOWERING
4. MATURITY (50% Flowering):	•
0 2 NO. OF DAYS EARLIER THAN	. 7 1 = ARTHUR 2 = SCOUT 3 = CHRIS 7=Coker 9766
0 2 NO. OF DAYS LATER THAN	8 A = LEMHI 5 = NUGAINES 6 = LEEDS 8=Coker 916
S. PLANT HEIGHT (From soil level to top of head):	. •
0 9 1 CM. HIGH	
O 1 CM. TALLER THAN	. 7 3 = CHRIS 7=Coker 9803
0 7 CM. SHORTER THAN	1 # ARTHUR 2 # SCOOT
& PLANT COLOR AT BOOTING (See reverse):	7. ANTHER COLOR:
7.5GY 4/4-4/6 Munsell Color Chart 2 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN	1 = YELLOW 2 = PURPLE
8. STEM:	
Anthocyanin: * ABSENT 2 = PRESENT	2 Waky bloom: 1 = ABSENT 2 = PRESENT
Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT	1 Internodes: 1 = HOLLOW 2 = SOLID
0 4 NO. OF HODES (Originating from node above ground)	2 4 CM INTERNODE LENGTH BETWEEN FLAG LEAF
7. AURICLES:	
2 Anthocyanin: 1 = ABSENT 2 = PRESENT	2 Hairiness: 1 = ABSENT 2 = PRESENT
10. LEAF:	
Flag leaf at = ERECT 2 = RECURVED booting stage: 3 = OTHER (Specify):	1 Flag leaf: 1 = NOT TWISTED 2 = TWISTED
1 Hairs of first leaf sheath: = ABSENT 2 = PRESENT	2 Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT
1 3 MM. LEAF WIDTH (First load below Had load)	1 8 CM. LEAF LENGTH (First loof below flag loof):
FORM LMGS 470-6 (6-82) (Formerly Form LPGS 470-6 (3-79), which m.	ay be used)

			1700188
3 Density: 1 = LA	x ?=DEMSE 3=Mid-Dense	Shape: 1 = TAF 4 = OTH	ERING 2 = STRAP 3 = CLAVATE ER (Specify) Oblong
3 Awnedness: 1 =	AWNLESS 2 = APICALLY AWNLETED	J = AWNLETED 4 = AW	NED
7 Color at majurity:	1 = WHITE 2 = YELLOW 3 = PINK 5 = BROWN 6 = BLACK 7 = OT	4 = RED THER (Specity): Tan 2.	5Y 8/4-8/6 Munsell Color Chart
0 8 CM. LENGT	н	1 2 MM. WIDTH	
12. GLUMES AT MATE Length: 1 = SHOT 3 = LON		121	(CA. 1 mm.) 2 = MEDIUM (CA. J. 5 mm.)
Shoulder 1 = WAI 3-4 shape: 4 = SQU		E 1 Beak: 1=08TU	SE 2 = ACUTE 3 = ACUMINATE
13. COLEOPTILE COL	DR:	14. SEEDLING ANTHO	CYANIN:
3 1 = WHITE 2 =	RED 3 = PURPLE	2 1 = ABSENT	2 = PRESENT
15. JUVENILE PLANT	FROWTH HABIT:		,
1 PROSTRATE	2 = SEMI-ERECT 3 = ER	ECT	
14. SEED:		•	
1 Shape: 1 = OVATE	2 = OVAL 3 = ELLIPTICAL	1 Cheek: 1 = ROUN	DED 2 = ANGULAR
2 Brush. 1 = SHORT	2 = MEDIUM 3 = LONG	Brush: 1 = NOT	COLLARED 2 = COLLARED
Phenol reaction 45 (See instructions):	1 = IVORY 2 = FAWN 3 = LT. BRO 4 = BROWN 5 = BLACK	WN	
5 Color: 1 = WHITE	2 = AMBER 3 = REO 4 = PURPLE	M E S = OTHER (Specily) 7.	edium Brown <u>5YR 5/6-5/8 Munsell Color</u> Char
0 6 MM. LENGTH	0 3 MM. WIDTH	3 3 GM. PER 1000	•
17. SEED CREASE:			****
2 Width: = 60% OR	LESS OF KERNEL 'WINOKA'	2 Depth: 1 = 20% 0	R LESS OF KERNEL 'SCOUT'
·	ESS OF KERNEL 'CHRIS'	2 = 35% 0	R LESS OF KERNEL 'CHRIS'
	AS WIDE AS KERNEL 'LEMHI' ited, 1 = Susceptible, 2 = Resistant) 3-1		R LESS OF KERNEL 'LEMHI'
3 STEM RUST	2 LEAF RUST	foderately Resistar	O LOOSE SMUT
1 POWDERY MILDEW	0 BUNT	3 OTHER (Specify)	Soil borne-virus complex
Southeast	ed, 1 = Susceptible, 2 = Resistant)		
SAWFLY	APHID (Bydv.)	O GREEN BUG	CEREAL LEAF BEETLE
<u>의</u>			[0] CEREAL CEAR BEETLE
OTHER (Specify)	HESSIAN FLY	2 GP A	2 B 2 C
· .	RACES:	2028	
	ETY MOST CLOSELY RESEMBLES THAT S	UBMITTED:	
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Coker 9803	Seed size	Coker 9803
Leaf size Leaf color	Coker 9543	Seed shape	Coker 9803
Leaf carriage	Coker 9803 Coker 9105	Coleoptile elongation Seedling pigmentation	Coker 9134
	COVET SION	Fine and biguestication	Coker 9543

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form-

- (a) L.W. Briggle and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.
- (b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See all achment.)

COKER 9474

Exhibit D. Additional Description

Table 2. Milling and Baking Quality

All evaluations have been conducted by the USDA Soft Wheat Quality Lab at Wooster, Ohio. COKER 9474 scores have been rated satisfactory. Scores are adjusted to a standard known to exhibit excellent quality. Quality data is presented in Table 2.

	1990-	91 CE		Identity 92 CE	1991-9	2 UEN
MILLING PARAMETERS	<u>FL302</u>	C 9474	C 9543	C 9474	<u>Caldwell</u>	C 9474
Test Wt (lb/bu) St. gr. Flour Yield Softness Equiv. Score	58.3 77.2 58.8 100.0	60.9 75.3 56.4 92.9	60.5 77.0 59.5 100.0	54.0	57.1 74.6 61.1 100.0	59.4 72.2 50.4 85.5
BAKING PARAMETERS						
Flour protein % Micro AWRC % Cookie dia. cm Top Grain Score	8.82 56.5 17.5 4 100.0	10.0 58.6 17.6 5 94.4	8.89 53.4 17.5 3 100.0		9.65 56.0 16.9 1	10.93 58.0 16.4 1 75.5

CE - Northrup King's Commercial Elite Test UEN - Uniform Eastern Soft Wheat Nursery

Leaf Rust Resistance

Coker 9474 expressed a resistant reaction to 10 of 12 isolates, and Lr9 was postulated as the leaf rust gene present. Leaf rust ratings were made in 1992 by David Long; USDA-ARS Cereal Rust Lab; University of Minnesota; St.Paul, MN (Table 3).

TABLE 3

LEAF RUST TEST:

Twelve isolates of leaf rust were inoculated into these lines, representing common virulence combinations that were identified from collections made throughout the U.S. The single gene lines we compared to include Lr 1, 2a, 2c, 3a, 9, 10, 11, 16, 17, 18, 24, 26, 30, 3ka.

Reaction Produced by Isolates Rust Isolates Possible

		qenes	Ιρ	* +.	9,24(?)	9,11	9,11	+	9,11	9,11	3,11+	3,11	9,11	6	9,11	10,18	10,11+	10+	9,11	11,18	9,11	24	9,24?	0	9,11	9,11
	00071		:1c :1c	• •	• •	• •	• •]c ;	• •		c-3 3	~		3	٠.	;lc ;	••	lc ;3	• •	÷.	••	• •	••	ر ب	••	••
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;	5	1081	<u>ر</u>	m		••	; Jc	×	••	••	;1c	;5	••	••	• •	×	; -3	;31c	. ~	;1c	••	ო	••	m	••	. ^
)	ָרָ נסיד	וישלו	<u>၂</u>	m	• •	• •	. ~	۳	••	; 0	. Jc	;5		••	. ~	×	×	31c;	••	;1c2	. ^	m	••	က	••	• •
	7	MUGL.	<u>၂</u>	m	••	••	••	×	0;	••	٣	٣		۰.	••	×	m	; 1c	••	;1c	••	1	, ^	3	• •	٠.
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	Warning	Val lety	NAPro	NKPro	Coker	Coker	Coker	Coker	Coker	Coker	Coker	Coker	Coker	Coker	Coker	Coker	Coker	Coker	Coker	Coker	Coker	Coker	Coker	McNai	TN 10	L 86043
																1										

DATA FROM: David Long USDA-ARS Cereal Rust Lab

USDA-AKS Cereal Kust Lar University of Minnesota St. Paul, MN

F

TABLE 3 Continued

Variety	1880	DBBL	LBBQ DBBL BGDL PBMG PLMQ MDGL	PBMG	PL MO	MDGL	TFBL	TOBL	TBGL	TFBL TDBL TBGL TDJG TLGG MDGB gene	TL66	MDGB	gene
L 870537	C)	67	~	~	~	۲٠,	~	۲٠,	۲:	~	~		0
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900819	3	1	•		,,	•	٠.	•	•		:-3 :1c2 :2	2:5	+

* Lr 34 Adult plant gene

VIRULENCE FORMULA Virulence/Avirulenc

אין מופורב אין מופורב	Q Lr1,10,18/2a,2c,3,9,11,16,17,24,26,30,3Ka	L Lr2c,10/1,2a,3,9,11,16,17,18,24,26,30,3Ka	L Lr10,16,17/1,2a,2c,3,9,11,18,24,26,30,3Ka	G Lr1,2c,3,18,30,3Ka/2a,9,10,11,16,17,24,26	(q Lr1,2c,3,9,10,18,30,3Ka/2a,11,16,17,24,26	il Lr1,3,10,11,24/2a,2c,9,16,17,18,26,30,3Ka	IL Lr1, 2a, 2c, 3 10, 24, 26/9, 11, 16, 17, 18, 30, 3Ka	1 Lr1,2a,2c,3,10,24/9,11,16,17,18,26,30,3Ka	il Lr1,2a,2c,3,10,11/9,16,17,18,24,26,30,3Ka	10 Lr1,2a,2c,3,10,11,17,18,24/9,16,26,30,3Ka	i6 Lr1, 2a, 2c, 3, 9, 11, 18/10, 16, 17, 24, 26, 30, 3Ka	i8 Lrl, 3, 11/2a, 2c, 9, 10, 16, 17, 18, 24, 26, 30, 3Ka
	LBB	088	869	PBMG	<u>F</u>	XOS.	TFB	108	TBG	15	1[6	MBG

COKER 9474

Exhibit E. Statement of the Basis of Applicants Ownership

Soft Red Winter Wheat variety Coker 9474 was developed by the Northrup King Company cereals breeding staff from germplasm sources cited in Exhibit A of this application. Northrup King Company believes that the variety is novel as defined in the Plant Variety Protection Act and, therefore, that Northrup King Company is the sole owner of the variety.